

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P948039

Luminaire Tested: **GALN-SB3A-950-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948039  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3A-950-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

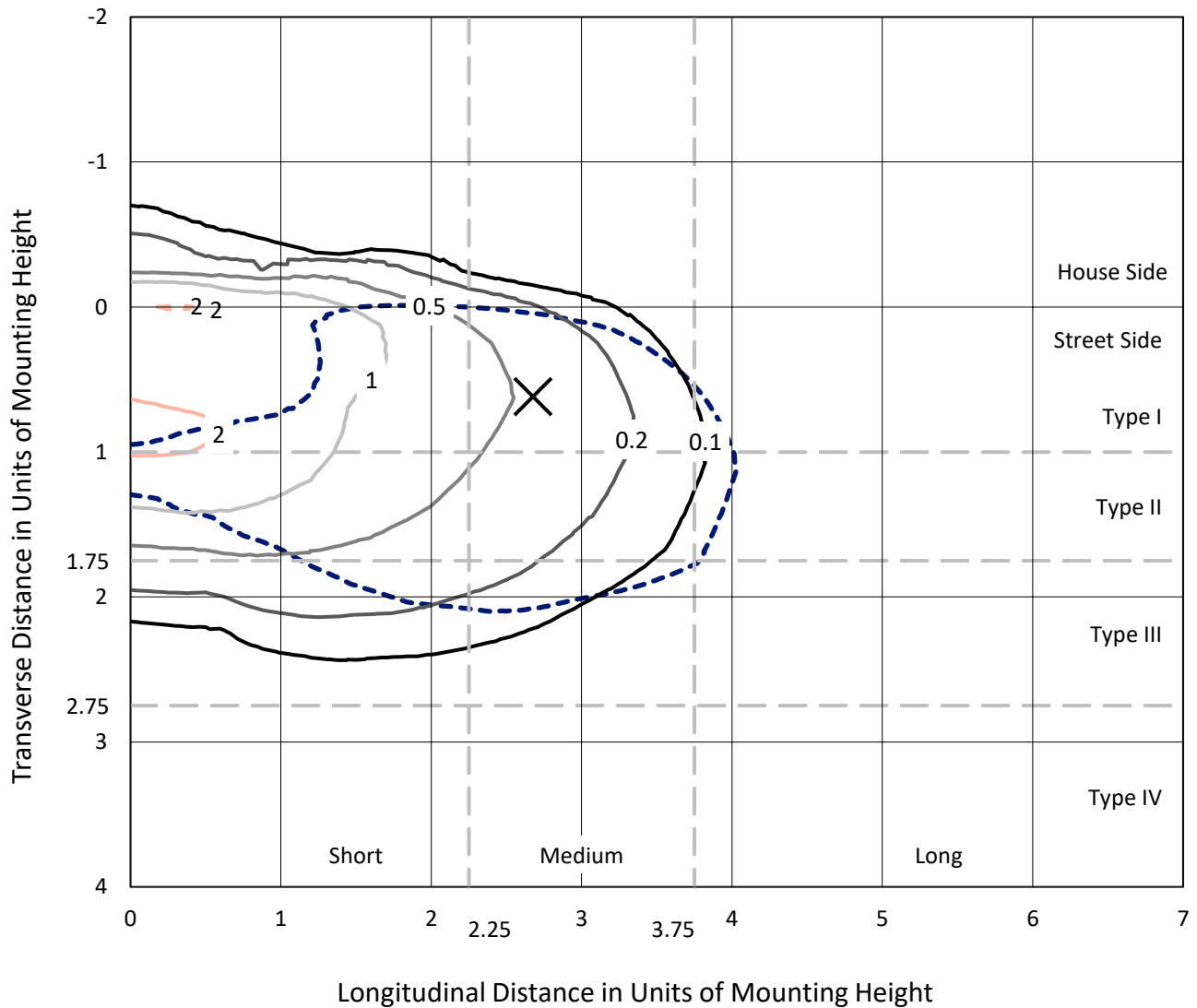
Lumens per Lamp: N/A  
Luminaire Lumens: 7795 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

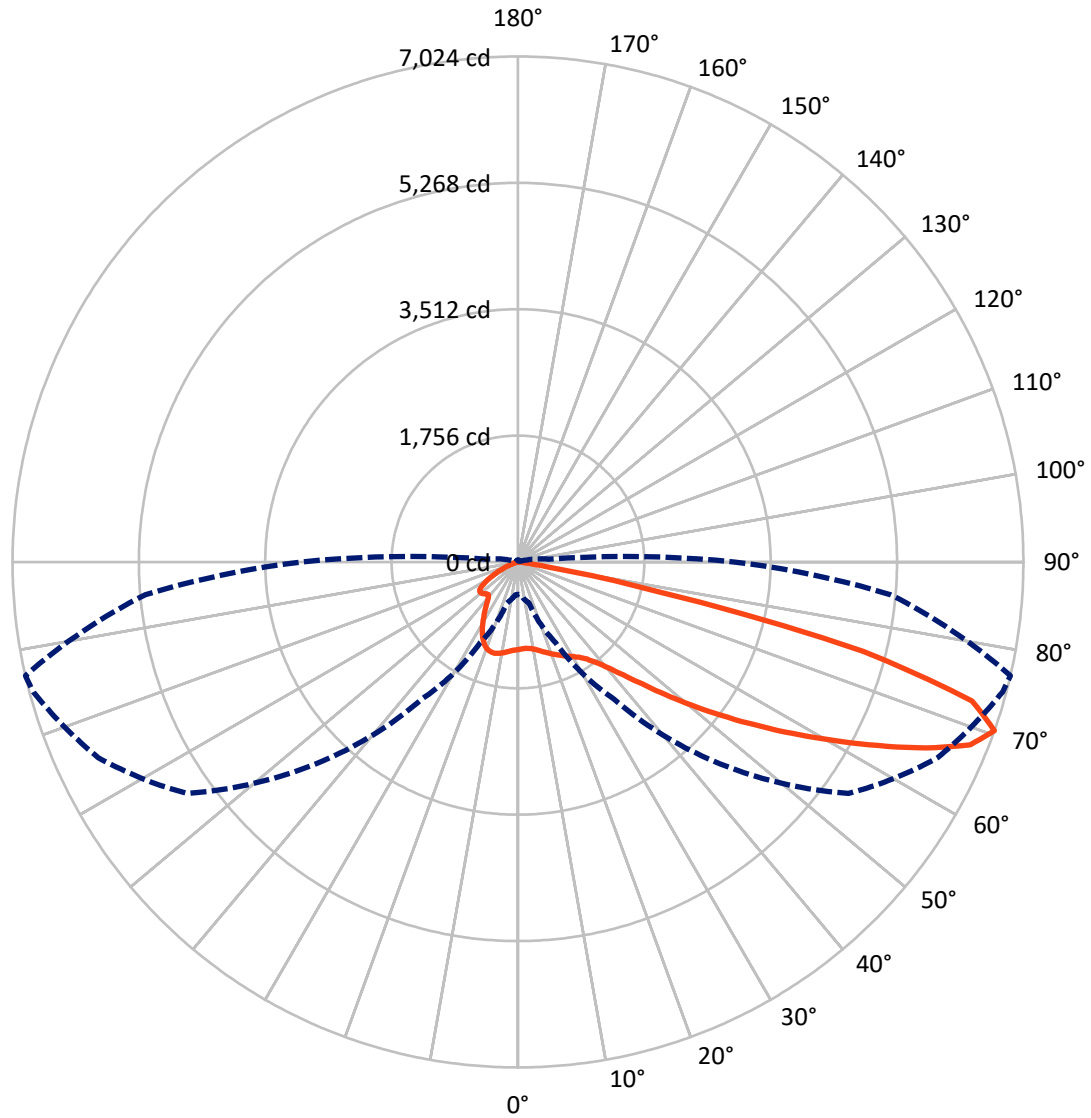
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	821.7	0.0	821.7
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	6973.3	0.0	6973.3
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	7795.0	0.0	7795.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.8	1.3
10°-20°	248.8	3.2
20°-30°	384.8	4.9
30°-40°	698.2	9.0
40°-50°	1317.9	16.9
50°-60°	1904.2	24.4
60°-70°	2027.0	26.0
70°-80°	1074.2	13.8
80°-90°	35.3	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7795.0	100.0
0°-180°	7795.0	100.0

**Coefficient of Utilization**



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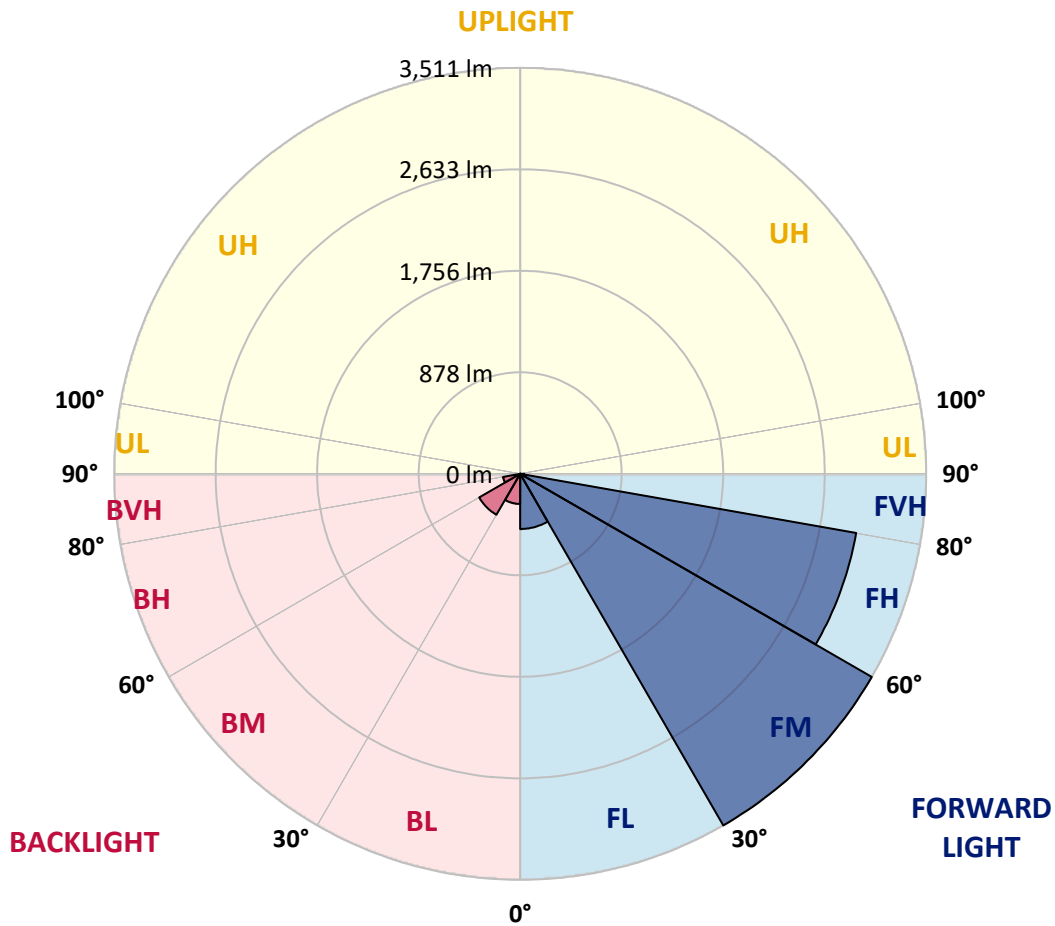
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	477.2	6.1			
FM (30°-60°)	3511.2	45.0			
FH (60°-80°)	2950.5	37.9			G2/5000
FVH (80°-90°)	34.3	0.4			G1/100
BL (0°-30°)	261.1	3.3	B1/500		
BM (30°-60°)	409.0	5.2	B1/1000		
BH (60°-80°)	150.6	1.9	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9
2.5°	1141.5	1151.9	1150.4	1157.3	1159.8	1169.6	1179.5	1192.7	1207.5	1207.0
5°	1077.1	1087.4	1089.9	1099.2	1111.0	1126.3	1146.5	1173.1	1200.6	1205.0
7.5°	1000.8	1011.6	1018.0	1036.7	1058.4	1089.9	1122.8	1161.7	1207.5	1213.9
10°	924.5	934.3	942.7	969.3	1003.7	1050.5	1104.1	1160.3	1221.8	1231.1
12.5°	877.2	886.6	895.9	919.0	961.9	1019.0	1091.8	1167.1	1245.4	1258.7
15°	860.5	868.8	876.2	896.9	936.8	1001.7	1089.4	1181.4	1275.4	1293.2
17.5°	862.9	867.4	872.3	888.0	926.9	993.9	1093.8	1206.0	1310.9	1326.6
20°	877.2	879.7	880.2	891.0	925.4	992.9	1102.7	1229.7	1344.4	1365.5
22.5°	895.4	896.4	895.4	902.8	934.8	1000.3	1114.5	1258.2	1381.8	1401.5
25°	980.6	961.9	938.2	924.0	950.6	1014.5	1132.2	1296.6	1422.6	1441.8
27.5°	1244.9	1191.3	1106.6	1011.6	983.0	1035.2	1156.8	1335.5	1464.0	1481.2
30°	1674.2	1603.8	1460.0	1245.9	1087.4	1078.5	1188.8	1374.4	1507.8	1526.5
32.5°	2104.4	2087.2	1921.3	1624.9	1322.2	1175.0	1242.0	1427.1	1565.9	1580.6
35°	2539.6	2504.6	2368.7	2075.9	1684.0	1371.4	1330.6	1496.0	1642.2	1658.9
37.5°	2872.8	2851.7	2767.5	2526.3	2113.3	1674.7	1482.2	1602.8	1752.9	1771.6
40°	3167.2	3157.3	3128.8	2969.8	2593.2	2071.4	1718.0	1768.2	1906.5	1928.7
42.5°	3398.6	3421.7	3437.9	3393.6	3087.9	2524.3	2035.0	2000.5	2120.7	2143.3
45°	3635.3	3643.2	3708.7	3772.7	3579.2	2997.9	2392.4	2272.8	2387.0	2415.0
47.5°	3787.4	3818.9	3934.1	4046.9	3992.2	3467.5	2776.3	2594.2	2695.6	2748.3
50°	3798.8	3858.3	4016.8	4213.2	4293.0	3914.4	3193.8	2960.4	3068.2	3126.3
52.5°	3610.2	3702.8	3948.4	4235.9	4455.4	4293.0	3625.5	3326.7	3465.0	3540.8
55°	2768.0	2889.1	3691.0	4112.8	4461.8	4580.0	4045.9	3708.2	3907.1	3992.7
57.5°	2411.6	2472.6	2901.9	3899.2	4343.2	4695.7	4425.9	4071.5	4388.0	4494.3
60°	2006.4	2086.7	2433.7	3549.7	4182.2	4707.0	4761.6	4540.1	4909.3	5028.9
62.5°	1363.6	1450.7	1795.8	2949.1	3962.2	4701.6	5036.8	5022.5	5488.7	5617.2
65°	844.7	899.4	1126.8	2408.1	3654.5	4707.5	5324.8	5608.3	6100.1	6230.5
67.5°	667.5	692.6	811.2	1848.9	3124.4	4574.6	5612.2	6159.1	6675.5	6778.9
70°	448.4	463.7	590.2	1239.5	2324.4	3961.2	5606.8	6435.8	6971.9	7023.5
72.5°	236.3	248.1	345.1	574.0	1403.9	2815.7	4726.2	6105.0	6677.0	6599.2
75°	118.1	137.8	232.3	291.4	599.6	1570.3	2934.8	4813.3	5255.4	4954.1
77.5°	89.6	108.3	192.0	192.0	208.7	528.7	1243.0	2625.2	2421.4	2016.3
80°	57.1	73.8	167.9	145.2	87.1	134.4	323.9	735.4	514.4	391.3
82.5°	33.5	48.2	139.8	96.0	48.7	49.7	91.6	156.5	133.4	103.9
85°	13.3	31.5	96.0	37.9	19.2	12.3	27.6	33.5	27.6	20.7
87.5°	0.0	7.4	16.7	0.0	1.5	1.0	2.0	2.5	2.5	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1215.9	0°	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9	1215.9
1216.9	2.5°	1221.3	1222.3	1225.2	1225.7	1218.8	1210.0	1206.5	1205.0	1199.1	1198.7
1224.7	5°	1236.1	1240.5	1236.1	1223.3	1192.7	1149.9	1117.4	1090.8	1066.7	1059.3
1251.8	7.5°	1265.6	1270.0	1256.7	1206.5	1129.7	1044.6	967.8	913.6	864.9	846.7
1284.8	10°	1307.9	1313.8	1272.0	1170.6	1034.7	897.9	767.9	676.4	605.0	575.9
1329.6	12.5°	1361.1	1363.6	1280.4	1116.0	911.2	715.7	531.6	433.7	370.2	346.6
1383.7	15°	1419.7	1416.2	1281.3	1041.6	742.8	506.0	347.0	285.0	259.4	251.5
1437.9	17.5°	1481.2	1466.9	1261.7	934.3	558.2	346.1	257.5	242.7	238.3	236.3
1491.5	20°	1541.8	1509.8	1225.7	794.0	400.7	258.4	233.8	229.4	226.9	225.9
1545.7	22.5°	1596.9	1542.2	1164.2	631.1	290.9	228.4	221.0	217.1	212.7	210.7
1598.4	25°	1650.5	1561.0	1077.6	479.0	232.8	213.6	207.7	200.3	194.4	192.0
1655.0	27.5°	1702.7	1572.8	969.3	354.4	207.7	199.9	189.0	178.7	174.3	173.3
1715.5	30°	1758.3	1576.7	846.2	264.3	192.5	182.6	166.9	155.1	152.6	153.1
1797.2	32.5°	1826.3	1582.6	722.1	216.6	179.7	162.0	143.2	130.9	129.0	130.9
1916.4	35°	1907.5	1594.4	602.5	199.4	168.4	140.8	120.6	110.3	108.3	109.8
2069.0	37.5°	2017.8	1613.6	490.8	195.9	159.0	123.1	101.4	93.0	93.0	93.5
2256.0	40°	2164.5	1664.8	390.9	193.5	154.1	109.8	85.7	82.2	83.7	84.7
2494.3	42.5°	2343.2	1773.6	323.4	190.5	148.7	103.9	77.8	76.3	78.8	79.7
2779.8	45°	2543.5	1911.4	299.8	185.6	143.7	107.8	74.3	72.4	75.3	75.8
3099.8	47.5°	2750.7	2046.3	296.8	180.2	138.8	113.7	73.3	68.9	72.4	72.9
3441.4	50°	2960.4	2134.4	299.8	171.8	130.9	113.7	73.8	65.5	68.4	69.9
3795.8	52.5°	3171.6	2174.8	297.8	153.6	117.2	106.8	73.8	62.5	65.5	66.5
4178.8	55°	3376.4	2166.9	267.8	126.5	99.4	94.5	71.9	60.1	62.0	62.5
4540.6	57.5°	3538.4	2057.1	212.2	98.5	80.7	78.8	65.5	57.1	58.6	58.1
4872.4	60°	3623.0	1815.9	151.6	75.8	63.5	62.0	57.6	53.2	54.1	51.7
5153.5	62.5°	3624.0	1497.0	101.4	60.1	50.7	49.2	49.2	47.7	46.8	41.8
5371.0	65°	3546.7	1143.0	67.4	47.7	40.9	38.4	41.3	40.9	37.4	30.5
5437.5	67.5°	3371.5	749.2	51.2	37.4	31.5	30.0	33.0	34.5	32.0	25.6
5195.3	70°	3011.1	436.1	42.3	29.0	23.6	22.2	26.6	29.5	26.6	20.7
4440.7	72.5°	2501.2	235.3	34.5	21.7	16.2	14.8	21.2	24.1	21.2	15.3
2849.2	75°	1623.0	126.0	26.6	14.3	8.4	9.4	15.8	17.7	14.8	9.8
836.3	77.5°	544.9	55.6	16.7	6.9	3.9	3.9	9.4	10.8	6.9	3.4
152.1	80°	121.6	23.1	6.9	3.0	1.5	1.5	2.0	2.0	1.0	0.0
46.8	82.5°	39.9	9.4	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
11.8	85°	15.3	3.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.9	87.5°	5.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
1215.9
1199.6
1054.9
839.3
563.6
339.2
251.5
235.8
225.0
210.2
191.0
172.3
153.1
130.4
109.3
93.0
84.7
79.7
76.3
73.3
70.4
66.5
62.5
58.1
51.2
40.4
29.5
25.1
19.7
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